

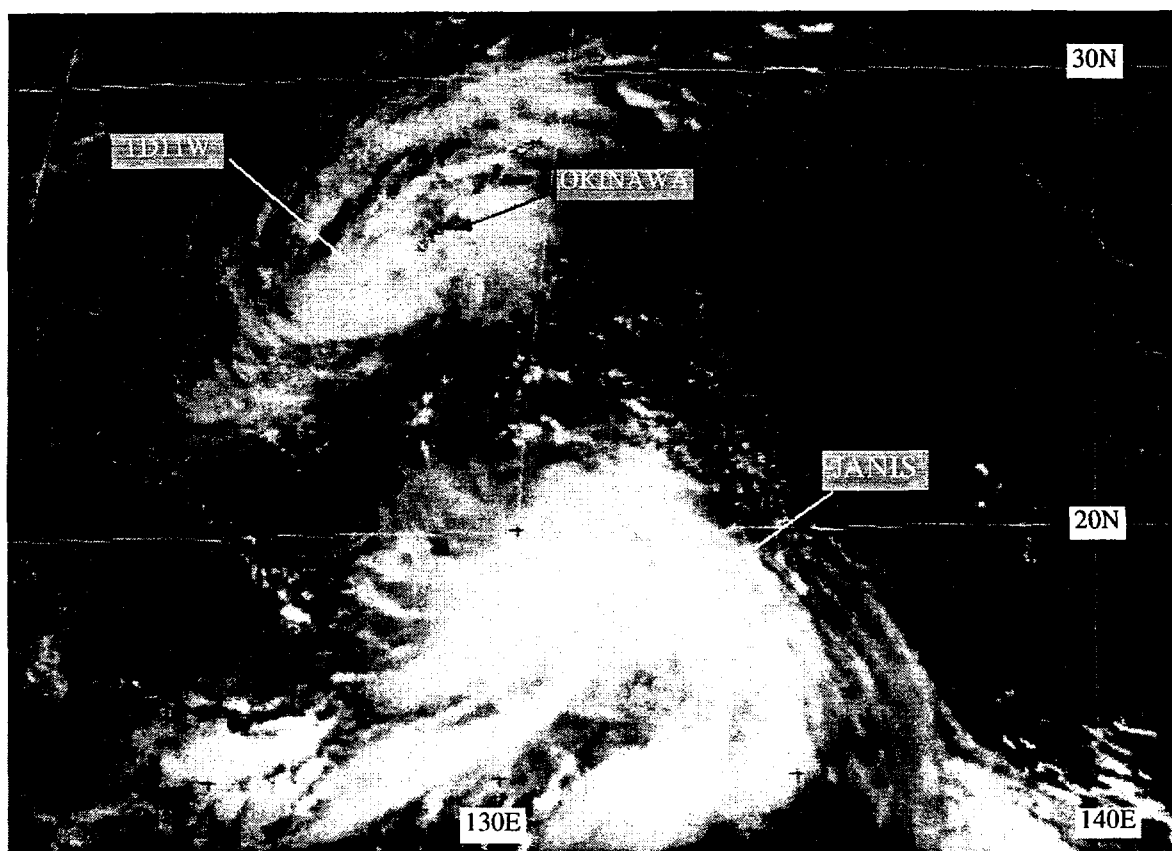
## TROPICAL DEPRESSION (11W)

### I. HIGHLIGHTS

Forming in association with a TUTT-induced area of convection to the north of Tropical Storm Janis (10W), Tropical Depression 11W eventually merged with Janis (see Janis' summary for more details on the merger).

### II. TRACK AND INTENSITY

On August 20, an area of persistent deep convection became established to the north of the area of convection associated with the developing Janis (10W). This area of deep convection (pre-TD 11W) appeared to be directly related to a TUTT cell that had moved westward into the southern Ryukyu Islands. This area of persistent deep convection became better organized (e.g., cyclonically curved bands of deep convection, low-level cloud lines suggesting the formation of a low-level circulation center, and a wide band of anticyclonically curved cirrus outflow to the north) in satellite imagery (Figure 3-11-1). Synoptic data also indicated the formation of a low-level circulation center separate from, and to the north of, Janis. A Tropical Cyclone Formation Alert (TCFA) was issued on this area at 220330Z August.



**Figure 3-11-1** Tropical Depression 11W as it orbits Tropical Storm Janis (10W) in a binary interaction that will culminate in the merger of these two tropical cyclones (212331Z August visible GMS imagery).

From the beginning, the JTWC anticipated that this system would be absorbed into the larger circulation of Janis (10W). Remarks on the TCFA included:

“... conditions are currently favorable for separate development of this system, re-absorption of this [system] into Janis (10W) is the favored scenario . . .”

Remarks on the Prognostic Reasoning message that accompanied the 221200Z warning on Janis (10W) included:

“... there is some evidence of binary interaction [of Janis] with the tropical disturbance near Okinawa. This may cause Janis to remain stationary, or undergo erratic motion over the next 12-24 hours . . .”

The first warning on Tropical Depression 11W was issued valid at 221200Z August based upon satellite imagery and synoptic data that clearly indicated that a separate low-level circulation center, possessing 25 kt (13 m/sec) maximum sustained wind, had formed in the southern Ryukyu Islands. During the subsequent 12 to 18 hours, Tropical Depression 11W executed a counter-clockwise loop, and its deep convection collapsed as it merged with the low-level circulation center of Janis. The JTWC issued the final warning valid at 230000Z for Tropical Depression 11W.

### III. DISCUSSION

Tropical Depression 11W merged with Tropical Storm Janis (10W). For more details of the merger of these two tropical cyclones see the discussion section of Janis' narrative.

### IV. IMPACT

No reports of significant damage or injuries were received.